

Approved Minutes of the Technical Advisory Committee Meeting  
January 16, 2007

**Members present:**    Roger Thompson                      Kim Greenwood  
                                 Jeff Williams                      Steve Revell  
                                 John Forcier                      Craig Heindel  
                                 Barb Willis                      Rodney Pingree  
                                 Phil Dechert                      Bernie Chenette

**Others present:**        Frank O'Brien

**Scheduled meetings:**

February 13, 2007	1-4 PM	Hazen's Notch Room
March 20, 2007	1-4 PM	Appalachian Gap Room

**Review of agenda**

Added a topic for well driller's training. Requested that the two topics lists be synchronized.

**Review of minutes**

The draft minutes of the December 19, 2006 meeting were circulated by e-mail and with no comments the minutes were included in the annual report as final.

**March meeting rescheduled**

It was decided to reschedule the meeting that had been set for March 13, 2007. The new date is March 20, 2007. Roger will arrange for the room and notify people.

**Well Driller's Training**

It was decided to hold the training on March 12<sup>th</sup> and March 19<sup>th</sup>. The sessions will last about three hours and are scheduled for the morning. Roger will find rooms. Rodney and Roger will prepare and outline and some handouts for use. Anne will be working on some language for the well driller's authority.

**Time of sale inspections**

At the moment, it appears that the Department is not supporting making the time of sale inspection mandatory.

Treatment of water supplies, and the disposal of the resultant waste material are significant issues. If all water systems must be tested, a significant number will be found with levels of contamination exceeding drinking water standards. The obvious choice may be to install a treatment system, but if there will be a filter backwash it must be disposed of in compliance with the rules. Radionuclide treatment may be a significant problem, though Craig noted that he had recently read about a treatment process that did not have a backwash component. Arsenic will normally be treated with cartridge type filters which can usually be disposed of in landfills.

There have been extensive meetings with an ad hoc group of attorneys, bankers, realtors, and engineers over what questions would need to be answered for a time of sale inspection that would satisfy all parties. The issues are complicated because different parties have particular interests and addressing all of the issues would require a costly site inspection. The Department approach would be to deal only with the minimum needed to determine that the water and wastewater systems are not failed at the time of sale. Any determination about whether the system will be suitable for the perspective purchaser would be something arranged between the parties involved in the particular sale.

The time of sale inspection need not be linked to clean slate. Each topic can stand alone from a statutory or rule basis.

John reviewed the clean slate concepts. There would be a specific date, maybe January 1, 2007 and everything in existence as of the date would be considered legitimate. Any failed system or supply, or any alterations that are a permit trigger after the clean slate date would require a permit. This has the potential of greatly reducing the effort by the Agency, and the private sector, related to record searches at the time of sale. Universal jurisdiction would ensure that any water or wastewater systems constructed in violation of the rules could not continue to be used if the systems fail.

### **Technical review checklist**

Roger reviewed how this process is expected to work. The list would provide consistent reviews, regardless of who does them. It would also serve as a guide for designers.

Craig suggested several changes. Mounds should have a plan reference to a specified distance above ground surface instead of an absolute elevation. The same concept should be applied to pump stations with floats a specified distance above the pump chamber floor. Some of the conditions are not clear as to whether issues related to advanced treatment systems apply to both primary and replacement systems. Specifications are needed for the water supply testing.

### **Water Supply Rules**

Rodney said that Scott Stewart has continued to work on updating the Water Supply Rules, and is in particular trying to create separate sections for each class of

supply with all of the information for that class contained within that section. This would allow for separation of the non-public supplies from the public supplies if it was decided to add the water supply requirements to the Wastewater System and Potable Water Supply Rules. Scott is also developing guidance for using the variance process that would indicate the order in which isolation distances should be reduced if full compliance cannot be obtained. Scott will attend the February 13<sup>th</sup> TAC meeting.

Steve noted that designers could benefit from education by the well drillers, and asked about a “best fix” guidance.

Rodney said he wanted to address abandoned wells in the rules. Roger noted that if a person needing a regional office permit proposed to abandon a well, the permit would require compliance with the Water Supply Rules. This does not happen often as the well owner claims intent to use the well for irrigation or standby.

Jeff noted that the problem with overflowing wells can be dealt with if the well driller is prepared for it and takes extra steps when drilling. It is difficult to deal with if the well is drilled with standard practices and a high pressure aquifer is found.

John and Rodney talked briefly about consecutive water systems. These are distribution systems, such as might be found within a large subdivision, that get their water from a public water system. There are many reasons to eliminate this approach to the extent possible, including confusion over which party is responsible and having sufficient resources to maintain the system.

Kim noted that since testimony was taken by the Groundwater Committee, an interim report has been filed. Kim will circulate the report to TAC members. Kim noted there is support for a statewide effort to map groundwater aquifers.

Items prioritized for discussion with high, low, and medium ranking

- 1.. Encourage I/A **low**
2. Soil identification vs. perc test **medium**
3. Colorado rule **low**
4. Permit by certification **low**
5. Curtain drain with presumption of effectiveness **high**
6. Field change policy **high**
7. Revisions to desktop hydro chart **medium**
8. Minimum amount of sand under a mound **high**
9. Grandfathered design flow and conversion of use policy **high**
10. Updating of design flow chart **high**

Recommendations made:

1. Revisions to mound sand specification
2. Lake water systems

Topics list - items not ready for drafting for inclusion in rule revisions

1. Drip disposal
2. Changing the 20% slope restriction to 30%
3. Replacing perc test with soil identification approach
4. Defining when effluent is no longer wastewater
5. Disinfection
6. Colorado Rule – reduction in isolation distance to wells based on construction methods
7. Certification and audit approach to permitting
8. Field change policy
9. Revise existing desktop hydro chart
10. Conversion of use policy, including grandfathered flows
11. Revise design flows
12. Increased loading rate
13. Wells shields across property lines
14. Whether less than 12” of sand should be allowed under mound systems

### **Executive Committee**

John Forcier, Steve Revell, Lance Phelps, Phil Dechert, and Roger Thompson  
Alternates – Chris Thompson, Bernie Chenette, Spencer Harris, Jeff Williams

### **Subcommittees**

Hydrogeology - Allison Lowry, Craig Heindel, Dave Cotton and Steve Revell.

Training subcommittee - John Forcier, Roger Thompson, Allison Lowry, Dave Cotton, and Barbara Willis.

Licensed designers - Spencer Harris, Alan Huizenga, and Gerry Kittle.

Well driller's knowledge checklist - Jeff Williams, Rodney Pingree, Roger Thompson, Bernie Chenette, Gail Center and Steve Revell.

Interested in the delegation rules - Spencer Harris, Gerry Kittle, Phil Dechert, and Alan Huizenga

Drip Disposal – Frank O’Brien, Roger Thompson, Dave Cotton, Steve Revell, Alan Huizenga

Legislative field trip – Phil Dechert, Gerry Kittle, Dave Cotton, Roger Thompson

Lake water – Alan Huizenga, Gail Center, Rodney Pingree, Lance Phelps

Surfacing systems – Craig Heindel, Steve Revell, Frank O’Brien, Roger Thompson, Bruce Douglas, Gail Center, and Brian Kooiker.